# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377


Job No.: CTCE/BBMP/PSG/W.No.01/CSR-05/657/CEMENT/2018-19 Date: 30.05.2018

## TEST REPORT ON CEMENT

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. P. Shekar Gowda,** No.152, 2nd Block, 3rd Stage, S.G. Halli. Basaveshwaranagara, Bangalore. |
| * Name of Work | : | Improvements to roads and drains at Yelahanka old town and Vinayaka layout surrounding in Ward No. 01 of Yelahanka Sub Division, BBMP, Bangalore. |
| * Reference | : | AEE/BBMP/YSD/AE-1/162/2018-19 Dated: 29.05.2018 |
| * Sample ID | : | Cement |
| Sample Received on | : | 29.05.2018 |
| Period of Testing | : | 29.05.2018 to 30.05.2018 |

The results of the tests conducted on the cement sample are as follows:

| Sl. No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 8112-2013 |
|---|---|---|---|---|
| 1 | Standard Consistency | IS-4031 (Part -4) 1988 (RA-2009) | 28.50 % | - |
| 2 | a) Initial Setting Time | IS-4031 (Part -5) 1988 (RA-2009) | 175 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part -5) 1988 (RA-2009) | 490 Minutes | Not More than 600 Minutes |
| 3 | Soundness by Le Chartlier Method | IS-4031 (Part-3) 1988 (RA-2009) | 1 mm | Not more than 10mm |

*Information is furnished by the Customer/Representative.

Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

*********

AE-1

VIDYARANI P.K.
Technical Manager


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# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377


No.: CTCE/BBMP/PSG/W.No.01/CSR-05/657/SAND-Gradation/2018-19 30.05.2018

## TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

| | |
|---|---|
| * Customer | : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore. |
| * Agency | : **Mr. P. Shekar Gowda,** No.152, 2nd Block, 3rd Stage, S.G. Halli. Basaveshwaranagara, Bangalore. |
| * Name of Work | : Improvements to roads and drains at Yelahanka old town and Vinayaka layout surrounding in Ward No. 01 of Yelahanka Sub Division, BBMP, Bangalore. |
| * Reference | : AEE/BBMP/YSD/AE-1/162/2018-19 Dated: 29.05.2018 |
| * Sample ID | : Fine Aggregates |
| Technical Reference | : IS : 2386 (Part 1) - 1963 (RA-2007) |
| Sample Received On | : 29.05.2018 |
| Date of Testing | : 30.05.2018 |

Total Wt. of Aggregates in gms = **1000**

| IS Sieve Size in mm | Cumulative Weight Passing in % | Specific Limits as per IS 383-1970 (RA- 2007) | | | |
|---|---|---|---|---|---|
| | | Zone-I | Zone-II | Zone-III | Zone-IV |
| 10 | 100 | 100 | 100 | 100 | 100 |
| 4.75 | 98.80 | 90-100 | 90-100 | 90-100 | 95-100 |
| 2.36 | 79.80 | 60-95 | 75-100 | 85-100 | 95-100 |
| 1.18 | 60.20 | 30-70 | 55-90 | 75-100 | 90-100 |
| 600 Micron | 41.70 | 15-34 | 35-59 | 60-79 | 80-100 |
| 300 Micron | 18.20 | 5-20 | 8-30 | 12-40 | 15-50 |
| 150 Micron | 6.20 | 0-10 | 0-10 | 0-10 | 0-15 |

* Information is furnished by the Customer/Representative

**Remarks :** This sample is under Zone-II specific limits.

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

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T-2377


Lab No. CTCE/BBMP/PSG/W.No.01/CSR-05/657/AGG/GR/2018-19 30.05.2018

## TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. P. Shekar Gowda,** No.152, 2nd Block, 3rd Stage, S.G. Halli. Basaveshwaranagara, Bangalore. |
| * Name of Work | : | Improvements to roads and drains at Yelahanka old town and Vinayaka layout surrounding in Ward No. 01 of Yelahanka Sub Division, BBMP, Bangalore. |
| * Reference | : | AEE/BBMP/YSD/AE-1/162/2018-19 Dated: 29.05.2018 |
| * Sample ID | : | Coarse Aggregates (40mm) |
| Technical Reference | : | IS : 2386 (Part 1) -1963 (RA-2011) |
| Sample Received on | : | 29.05.2018 |
| Date of Testing | : | 30.05.2018 |

Total Wt. of Aggregates in gms= **5000**

| IS Sieve Size in mm | Cumulative Weight Passing in % | Specific Limits as per IS 383-1970 (RA- 2011) | |
|---|---|---|---|
| | | Graded | Single Sized |
| 80 | 100 | 100 | - |
| 63 | 100 | - | 100 |
| 40 | 97.74 | 95-100 | 85-100 |
| 20 | 38.74 | 30-70 | 0-20 |
| 10 | 14.10 | 10-35 | 0-5 |
| 4.75 | 4.10 | 0-5 | - |

* Information is furnished by the Customer/Representative

**Remarks :** This sample is under graded specific limits.

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005


No.: CTCE/BBMP/PSG/W.No.01/Steel/2018-19 31.05.2018

## TEST REPORT ON REINFORCEMENT STEEL

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. P. Shekar Gowda,** No.152, 2nd Block, 3rd Stage, S.G. Halli. Basaveshwaranagara, Bangalore. |
| * Name of work | : | Improvements to roads and drains at Yelahanka old town and Vinayaka layout surrounding in Ward No. 01 of Yelahanka Sub Division, BBMP, Bangalore. |
| * Reference | : | AEE/BBMP/YSD/AE-1/162/2018-19 Dated: 29.05.2018 |
| * Samples ID | : | 8mm Bar |
| Technical Reference | : | IS: 1786-2008 |
| Date of Testing | : | 31.05.2018 |

| Sl No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH | | | Bend Test | Rebend Test |
|---|---|---|---|---|---|---|---|
| | | | 0.20% proof stress/Yield stress N/mm2 | Tensile strength (Ultimate stress) N/mm2 | Elongation percent gauge length | | |
| 1 | 8 | 0.39 | 511 | 552 | 13.1 | O.K | O.K |

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**Civil-tech Consultants & Engineers**
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# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
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BSCIC
ISO 9001 REGISTERED


b No.: CTCE/BBMP/PSG/W.No.01/Steel/2018-19 31.05.2018

## TEST REPORT ON REINFORCEMENT STEEL

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. P. Shekar Gowda,** No.152, 2nd Block, 3rd Stage, S.G. Halli. Basaveshwaranagara, Bangalore. |
| * Name of work | : | Improvements to roads and drains at Yelahanka old town and Vinayaka layout surrounding in Ward No. 01 of Yelahanka Sub Division, BBMP, Bangalore. |
| * Reference | : | AEE/BBMP/YSD/AE-1/162/2018-19 Dated: 29.05.2018 |
| * Samples ID | : | 10 mm Bar |
| Technical Reference | : | IS: 1786-2008 |
| Date of Testing | : | 31.05.2018 |

| Sl No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH | | | Bend Test | Rebend Test |
|---|---|---|---|---|---|---|---|
| | | | 0.20% proof stress/Yield stress N/mm2 | Tensile strength (Ultimate stress) N/mm2 | Elongation percent gauge length | | |
| 1 | 10 | 0.62 | 514 | 555 | 13.2 | O.K | O.K |

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T-2377


ob No.: CTCE/BBMP/PSG/W.No.01/CSR-05/657/Cube/2018-19 30.06.2018

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. P. Shekar Gowda,** No.152, 2nd Block, 3rd Stage, S.G. Halli. Basaveshwaranagara, Bangalore. |
| * Name of the work | : | Improvements to roads and drains at Yelahanka old town and Vinayaka layout surrounding in Ward No. 01 of Yelahanka Sub Division, BBMP, Bangalore. |
| * Reference | : | AEE/BBMP/YSD/AE-1/162/2018-19 Dated: 29.05.2018 |
| * Sample ID | : | RCC Drain Bed Slab Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 30.06.2018 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 02.06.2018 | 30.06.2018 | 8.107 | 483.5 | 21.49 |
| 2 | 02.06.2018 | 30.06.2018 | 8.213 | 508.2 | 22.59 |
| 3 | 02.06.2018 | 30.06.2018 | 8.336 | 512.7 | 22.79 |

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Job No.: CTCE/BBMP/PSG/W.No.01/CSR-05/657/Cube/2018-19

30.06.2018

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. P. Shekar Gowda,** No.152, 2nd Block, 3rd Stage, S.G. Halli. Basaveshwaranagara, Bangalore. |
| * Name of the work | : | Improvements to roads and drains at Yelahanka old town and Vinayaka layout surrounding in Ward No. 01 of Yelahanka Sub Division, BBMP, Bangalore. |
| * Reference | : | AEE/BBMP/YSD/AE-1/162/2018-19 Dated: 29.05.2018 |
| * Sample ID | : | RCC Drain Bed Slab Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 30.06.2018 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 02.06.2018 | 30.06.2018 | 8.187 | 516.0 | 22.93 |
| 2 | 02.06.2018 | 30.06.2018 | 8.220 | 518.7 | 23.05 |
| 3 | 02.06.2018 | 30.06.2018 | 8.350 | 522.4 | 23.22 |

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Job No.: CTCE/BBMP/PSG/W.No.01/CSR-05/657/Cube/2018-19

02.07.2018

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| * Customer | : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| * Agency | : Mr. P. Shekar Gowda, No.152, 2nd Block, 3rd Stage, S.G. Halli. Basaveshwaranagara, Bangalore. |
| * Name of the work | : Improvements to roads and drains at Yelahanka old town and Vinayaka layout surrounding in Ward No. 01 of Yelahanka Sub Division, BBMP, Bangalore. |
| * Reference | : AEE/BBMP/YSD/AE-1/162/2018-19 Dated: 29.05.2018 |
| * Sample ID | : RCC Drain Bed Slab Concrete |
| Technical Reference | : IS: 516-1959 (RA-2013) |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| * Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : $28^{th}$ day |
| Sample Received on | : 02.07.2018 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 04.06.2018 | 02.07.2018 | 8.117 | 485.0 | 21.56 |
| 2 | 04.06.2018 | 02.07.2018 | 8.285 | 505.4 | 22.46 |
| 3 | 04.06.2018 | 02.07.2018 | 8.392 | 518.8 | 23.06 |

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T-2377


02.07.2018

Job No.: CTCE/BBMP/PSG/W.No.01/CSR-05/657/Cube/2018-19

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. P. Shekar Gowda,** No.152, 2nd Block, 3rd Stage, S.G. Halli. Basaveshwaranagara, Bangalore. |
| * Name of the work | : | Improvements to roads and drains at Yelahanka old town and Vinayaka layout surrounding in Ward No. 01 of Yelahanka Sub Division, BBMP, Bangalore. |
| * Reference | : | AEE/BBMP/YSD/AE-1/162/2018-19 Dated: 29.05.2018 |
| * Sample ID | : | RCC Drain Bed Slab Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 02.07.2018 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 04.06.2018 | 02.07.2018 | 8.097 | 474.6 | 21.09 |
| 2 | 04.06.2018 | 02.07.2018 | 8.175 | 508.2 | 22.59 |
| 3 | 04.06.2018 | 02.07.2018 | 8.228 | 513.4 | 22.82 |

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T-2377


04.07.2018

Job No: CTCE/BBMP/PSG/W.No.01/CSR-05/657/Cube/2018-19

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| * Customer | : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore. |
| * Agency | : **Mr. P. Shekar Gowda,** No.152, 2nd Block, 3rd Stage, S.G. Halli. Basaveshwaranagara, Bangalore. |
| * Name of the work | : Improvements to roads and drains at Yelahanka old town and Vinayaka layout surrounding in Ward No. 01 of Yelahanka Sub Division, BBMP, Bangalore. |
| * Reference | : AEE/BBMP/YSD/AE-1/162/2018-19 Dated: 29.05.2018 |
| * Sample ID | : RCC Drain Side Wall Concrete |
| Technical Reference | : IS: 516-1959 (RA-2013) |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| * Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : $28^{th}$ day |
| Sample Received on | : 04.07.2018 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 06.06.2018 | 04.07.2018 | 8.137 | 475.6 | 21.14 |
| 2 | 06.06.2018 | 04.07.2018 | 8.218 | 508.6 | 22.60 |
| 3 | 06.06.2018 | 04.07.2018 | 8.332 | 516.2 | 22.94 |

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T-2377

Job No. CTCE/BBMP/PSG/W.No.01/CSR-05/657/Cube/2018-19 04.07.2018

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. P. Shekar Gowda,** No.152, 2nd Block, 3rd Stage, S.G. Halli. Basaveshwaranagara, Bangalore. |
| * Name of the work | : | Improvements to roads and drains at Yelahanka old town and Vinayaka layout surrounding in Ward No. 01 of Yelahanka Sub Division, BBMP, Bangalore. |
| * Reference | : | AEE/BBMP/YSD/AE-1/162/2018-19 Dated: 29.05.2018 |
| * Sample ID | : | RCC Drain Side Wall Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 04.07.2018 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 06.06.2018 | 04.07.2018 | 8.129 | 498.6 | 22.16 |
| 2 | 06.06.2018 | 04.07.2018 | 8.264 | 526.4 | 23.40 |
| 3 | 06.06.2018 | 04.07.2018 | 8.322 | 538.7 | 23.94 |

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/PSG/W.No.01/CSR-05/657/Cube/2018-19 06.07.2018

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | | |
|---|---|---|
| * Customer | : | **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore. |
| * Agency | : | **Mr. P. Shekar Gowda,** No.152, 2nd Block, 3rd Stage, S.G. Halli. Basaveshwaranagara, Bangalore. |
| * Name of the work | : | Improvements to roads and drains at Yelahanka old town and Vinayaka layout surrounding in Ward No. 01 of Yelahanka Sub Division, BBMP, Bangalore. |
| * Reference | : | AEE/BBMP/YSD/AE-1/162/2018-19 Dated: 29.05.2018 |
| * Sample ID | : | RCC Drain Side Wall Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{30}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 06.07.2018 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 08.06.2018 | 06.07.2018 | 8.169 | 478.8 | 21.28 |
| 2 | 08.06.2018 | 06.07.2018 | 8.228 | 493.5 | 21.93 |
| 3 | 08.06.2018 | 06.07.2018 | 8.334 | 510.7 | 22.70 |

*Information is furnished by the Customer/Representative.

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Civil-Tech Consultants & Engineers Bangalore

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VIDYARANI P.K.
Technical Manager

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| * Reference | : | AEE/BBMP/YSD/AE-1/162/2018-19 Dated: 29.05.2018 |
| * Sample ID | : | RCC Drain Side Wall Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 09.07.2018 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 11.06.2018 | 09.07.2018 | 8.139 | 474.8 | 21.10 |
| 2 | 11.06.2018 | 09.07.2018 | 8.259 | 486.3 | 21.61 |
| 3 | 11.06.2018 | 09.07.2018 | 8.345 | 505.4 | 22.46 |

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Job No.: CTCE/BBMP/PSG/W.No.01/CSR-05/657/Cube/2018-19 09.07.2018

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| * Reference | : | AEE/BBMP/YSD/AE-1/162/2018-19 Dated: 29.05.2018 |
| * Sample ID | : | RCC Drain Side Wall Concrete |
| Technical Reference | : | IS: 516-1959 (RA-2013) |
| Size of cubes | : | 150mmx150mmx150mm |
| Cross Sectional Area | : | 22500 $mm^2$ |
| * Grade of Concrete | : | $M_{20}$ |
| Compressive Strength as on | : | $28^{th}$ day |
| Sample Received on | : | 09.07.2018 |

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 11.06.2018 | 09.07.2018 | 8.160 | 485.7 | 21.59 |
| 2 | 11.06.2018 | 09.07.2018 | 8.280 | 534.5 | 23.76 |
| 3 | 11.06.2018 | 09.07.2018 | 8.309 | 512.4 | 22.77 |

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T-2377


No. CTCE/BBMP/PSG/W.No.01/CSR-05/567/Precast slab/2018-19 15.06.2018

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

| | | |
|---|---|---|
| *Customer | : | **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore. |
| *Agency | : | **Mr. P. Shekar Gowda,** No.152, 2nd Block, 3rd Stage, S.G. Halli. Basaveshwaranagara, Bangalore. |
| *Name of work | : | Improvements to roads and drains at Yelahanka old town and Vinayaka layout surrounding in Ward No. 01 of Yelahanka Sub Division, BBMP, Bangalore. |
| *Reference | : | AEE/BBMP/YSD/AE-1/162/2018-19 Dated. 29.05.2018 |
| *Sample ID | : | Precast slab (100mm thick) |
| *Grade of Concrete | : | $M_{20}$ |
| Techinical Reference | : | IS 516-1959 (RA- 2013), SP-24:1983. |
| Sample Received on | : | 12.06.2018 |
| Date of Testing | : | 15.06.2018 |

| Sl. No | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / $m^3$) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength ( $N/mm^2$) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength ($N/mm^2$) | Equivalent Cube Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50.00 | 77.00 | 0.389 | 2572.94 | 1.54 | 0.950 | 29.85 | 15.20 | 16.42 | 17.28 | 21.60 |
| 2 | 50.00 | 80.00 | 0.403 | 2565.58 | 1.60 | 0.957 | 33.85 | 17.24 | 18.62 | 17.81 | 22.27 |
| 3 | 50.00 | 79.00 | 0.390 | 2514.25 | 1.58 | 0.955 | 32.60 | 16.60 | 17.93 | 17.12 | 21.40 |

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